AMENDMENT UNDER 37 C.F.R. § 1.111 Attorney Docket No.: Q80574

Application No.: 10/806,416

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A spiral separation membrane element comprising:

a perforated cored tube formed with a plurality of perforations;

a separation membrane;

a feed-side passage material;

a first permeation-side passage material; and

a second permeation-side passage material being spirally would wound around the

perforated cored tube, wherein the second permeation-side passage material is different from the

first permeation-side passage material, and wherein-

the separation membrane, the feed-side passage material, and the first permeation-side

passage material are spirally wound around the second permeation-side passage material;

the feed-side passage material and the first permeation-side passage material are disposed

respectively on the feed side and permeation side of the separation membrane; and

the effective perforated-part area as calculated by multiplying the total area of the

perforations in the perforated cored tube by the percentage of openings in one layer of the second

permeation-side passage material is at least 1.0 time the inner cross-sectional area of the core

tube.

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2. (Previously presented) The spiral separation membrane element as claimed in claim

1, wherein the second permeation-side passage material is wound around the perforated cored

tube so as to make substantially 2-15 laps.

3. (Previously presented) The spiral separation membrane element as claimed in claim 1

or 2, wherein the separation membrane includes at least one of a ultralow-pressure reverse

osmosis membrane, ultrafiltration membrane, or microfiltration membrane.

4. (Previously presented) The spiral separation membrane element as claimed in claim 1,

wherein the first permeation-side passage material is monolithic with the second permeation-side

passage material.

5. (Previously presented) The spiral separation membrane element as claimed in claim 1,

wherein the first permeation-side passage material is separated from the second permeation-side

passage material.

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